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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,714	06/25/2001	Johan Smets	CM2380	8782
27752	7590 08/14/2002			
THE PROCTER & GAMBLE COMPANY INTELLECTUAL PROPERTY DIVISION WINTON HILL TECHNICAL CENTER - BOX 161			EXAMINER	
			KUMAR, PREETI	
	6110 CENTER HILL AVENUE CINCINNATI, OH 45224		ART UNIT	PAPER NUMBER
,			1751	8
			DATE MAILED: 08/14/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		_ 1 Y			
	Application No.	Applicant(s)			
	09/888,714	SMETS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Preeti Kumar	1751			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 30 h	<u>fay 2002</u> .				
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4) Claim(s) 1-4 and 7-12 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4 and 7-12</u> is/are rejected.					
7)☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)☐ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/888,714 Page 2

Art Unit: 1751

DETAILED ACTION

Response to Amendment

- 1. Claims 1-4 and 7-12 are pending.
- 2. The rejection of claims 1 and 7-11 rejected under 35 U.S.C 112 are withdrawn in light of applicant's amendment dated May 30, 2002, paper # 7.
- 3. The rejection of claims 11 and 12 rejected under 35 U.S.C. 101 are withdrawn in light of applicant's amendment.
- 4. The rejection of claims 1-12 rejected under 35 U.S.C. 103(a) as being obvious over von der Osten et al. (US 6,015,783) is maintained for the reasons of record, cited in the previous office action and further explained below.

Response to Arguments

5. Applicant's arguments filed on May 30, 2002 in paper # 7, have been fully considered but they are not persuasive because contrary to Applicant's arguments, von der Osten et al. do specifically suggest a detergent composition comprising a cyclodextrin glucanotransferase enzyme, a detergent ingredient and a starch binding domain derived from the specific sources set forth in amended claim 1. The examiners draws Applicant's attention to column 3, lines 35-50, where von der Osten et al. suggest the use of EC 3.2.1.1, a catalytically active amino acid sequence of an enzyme useful in relation to the cleaning of fabric or textile in washing processes. See col.3, In.40-45. The teachings of von der Osten et al. do suggest a detergent composition comprising a glucoamylase of Aspergillus niger, since it is well with in the knowledge of one of ordinary skill in the art that the enzyme classification 3.2.1.1 includes

Application/Control Number: 09/888,714

Art Unit: 1751

ACID ALPHA-AMYLASE (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN GLUCANOHYDROLASE).[Aspergillus niger]

(AMYA)ALPHA-AMYLASE A PRECURSOR (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN

GLUCANOHYDROLASE A). [Aspergillus awamori]

(AMYB)ALPHA-AMYLASE B PRECURSOR (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN

GLUCANOHYDROLASE B). [Aspergillus awamori]

Please see http://mbu.iisc.ernet.in/~pbgrp/date/1ciu.html

Hence, the rejection of claims 1-12 rejected under 35 U.S.C. 103(a) as being obvious over von der Osten et al. (US 6,015,783) is maintained for the reasons of record.

New Grounds of Rejection

6. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Danielsen et al. (US 6,410,291).

Danielsen et al. teach a detergent composition formulated as a hand or machine laundry detergent composition including a laundry additive composition suitable for pretreatment of stained fabrics and a rinse added fabric softener composition, or be formulated as a detergent composition for use in general household hard surface cleaning operations, or be formulated for hand or machine dishwashing operations. In a specific aspect, the invention provides a detergent additive comprising a haloperoxidase. Danielsen et al. teach that the detergent additive as well as the detergent composition may comprise one or more other enzymes such as a protease, a lipase, a cutinase, an amylase, a carbohydrase, a cellulase, a pectinase, a mannanase, an arabinase, a galactanase, a xylanase, an oxidase, e.g., a laccase, and/or a peroxidase. In general the properties of the chosen enzyme(s) should be compatible with the selected detergent, (i.e. pH-optimum, compatibility with other enzymatic and

Art Unit: 1751

non-enzymatic ingredients, etc.), and the enzyme(s) should be present in effective amounts. Suitable proteases include those of animal, vegetable or microbial origin. Microbial origin is preferred. Chemically modified or protein engineered mutants are included. The protease may be a serine protease or a metallo protease, preferably an alkaline microbial protease or a trypsin-like protease. Examples of alkaline proteases are subtilisins, especially those derived from Bacillus, e.g., subtilisin Novo, subtilisin Carlsberg, subtilisin 309, subtilisin 147 and subtilisin 168. Examples of trypsin-like proteases are trypsin (e.g. of porcine or bovine origin) and the Fusarium protease. The composition may comprise a polypeptide of the invention as the major enzymatic component. Alternatively, Danielsen et al. suggest that the composition may comprise multiple enzymatic activities, such as an aminopeptidase, amylase, carbohydrase, carboxypeptidase, catalase, cellulase, cyclodextrin glycosyltransferase, alphagalactosidase, beta-galactosidase, glucoamylase, alpha-glucosidase, beta-glucosidase, haloperoxidase, or proteolytic enzyme. The additional enzyme(s) may be producible by means of a microorganism belonging to the genus Aspergillus, preferably Aspergillus aculeatus, Aspergillus awamori, Aspergillus niger, or Aspergillus oryzae. See col. 20, In.1-60.

Specifically regarding claim 7, Danielsen et al. teach that the detergent will usually contain from about 0.2% to about 40% of a non-ionic surfactant such as alcohol ethoxylate, nonylphenol ethoxylate, alkylpolyglycoside, alkyldimethylamineoxide, ethoxylated fatty acid monoethanolamide, fatty acid monoethanolamide, polyhydroxy

alkyl fatty acid amide, or N-acyl N-alkyl derivatives of glucosamine ("glucamides"). See col.22, In.60-65.

Specifically regarding claim 8, Danielsen et al. teach that the detergent may contain a bleaching system, which may comprise a H2O2 source such as perborate or percarbonate which may be combined with a peracid- forming bleach activator such as tetraacetylethylenediamine or nonanoyloxybenzenesulfonate. Alternatively, the bleaching system may comprise peroxyacids of e.g. the amide, imide, or sulfone type. See col.23, In.14-20.

Danielsen et al. do not specifically teach a detergent composition having the specific ratios and proportions as recited by the instant claims.

However, it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to formulate a detergent composition comprising a cyclodextrin glucanotransferase enzyme, a nonionic surfactant, a protease, a bleaching agent and a glucoamylase derived from Aspergillus niger in the specific proportions as recited by the instant claims, with a reasonable expectation of success, because Danielsen et al. suggest a detergent composition comprising a cyclodextrin glucanotransferase enzyme, a nonionic surfactant, a protease, a bleaching agent and a glucoamylase derived from Aspergillus niger and further, it would have been obvious, to one of ordinary skill in the art, to modify the claimed ratios as suggested in the prior art.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Application/Control Number: 09/888,714

Art Unit: 1751

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

Page 6

CFR 1.136(a).

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

A shortened statutory period for reply to this final action is set to expire THREE.

shortened statutory period will expire on the date the advisory action is mailed, and any

mailed until after the end of the THREE-MONTH shortened statutory period, then the

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Preeti Kumar whose telephone number is 703-305-

0178. The examiner can normally be reached on M-F 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 703-308-4708. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9310

for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

PK

August 12, 2002

YOGENDRA N. GUPTA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700 Preeti Kumar Examiner Art Unit 1751 Application/Control Number: 09/888,714

Page 7

Art Unit: 1751